CRB Bearings

Material structure

Sliding layer: Continuous wound PTFE and high-strength fibers encapsulated in an internally lubricated, high temperature filled epoxy resin.
Backing: Continuous wound glass fiber encapsulated in epoxy resin.

Technical data

Material properties	Standard	Unit	CRB
Density	ISO1183	g/cm^3	1.90
Max. water absorption	ISO62	%	0.1
Max. PV (dry)	ITS026	N/mm^2×m/s	1.5
Coefficient of friction	ITS025	μ	0.03~0.12
Long-term application temperature	ITS029	℃	+160
Short-term application temperature	ITS029	℃	+180
Lowest application temperature	ITS029	℃	-196
Max. Speed	ITS032	m/s	0.13
Compressive strength	ITS033	MPa	420
Max. static load	ITS027	MPa	240
Max. dynamic load	ITS028	MPa	140
Linear coef. of thermal Expansion (25 ~ 150℃)	ISO11359	10^{-6}×K^{-1}	13

*ITS: CSB company's internal test standards.
**Test temperatures are 23℃ unless otherwise stated.

Typical features

For high load oscillation applications
Excellent wear resistance
Very good chemical resistance
Lower friction coefficient
Oil forbidden

Typical applications

Hydraulic cylinder pivots
Boom lifts, scissor lifts
Cranes, material handling equipment
Construction machinery arm bushes
Port machinery

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